# TC-D2600BS SERIES
# HIGH SPEED DOME CAMERA
# USER'S MANUAL

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# 1 Precautions

## 1.Transportation Security

No heavy stress, violent vibration or water splash are allowed during transportation, storage. The unit should be transported in separated packing. In shipments of distributor and delivery of maintenance, any damages caused by integral packing are not covered by warranty.

## 2. Installation

Avoid heavy stress and violent vibration during installation. Don't touch the dome cover directly by hand. When connecting the power source, please follow all electric safety standards and only use the power supply designated for this device. Keep the video and control signal in a decent distance from high voltage devices and cable. Don't apply power to the dome before finishing the installation.

## 3.Dismantlement

Please don't dismantle the devices in the dome body. Only the professional personnel authorized can operate the maintenance.

## 4. Internal Environment

Keep metal and inflammable material away from dome body to avoid fire, short circuit and damage. Please prevent all liquids material from entering the dome. If occur this, please shut down the power and pull out the plug. Then inform the technical personnel immediately.

## 5. Electrical Safety

The video image would be interfered when the dome is installed near television, radio transmitter, voltage changer and audio amplifier.

## 6. Camera Protection

Avoid shooting very bright objects directly into the camera's CCD (such as the sun or light fittings).

## 7. Cleaning Method

Please don't use abrasive and violent detergent to clean the dome. Please choose dry fabric and neutral detergent. Use lens paper to clean the lens.

# 2 Features

## 2.1 Built-in Decoder

● **Power-off protection, no data loss**

● **220 programmable presets**

● **8 cruising tracks, each cruising track has 32 preset positions**

● **4 pattern tours, each one with 180s memory**

● **RS-485 bus**

● **8 groups of auto scan, the left and right boundary and scan speed can be set**

● **Pelco_P and Pelco_D compatible**

● **6 alarm inputs and 2 outputs**

● **Message display function, lens coordinate value, temperature and alarm information can be showed**

● **Guard location, the dome can operate preset, auto scan, cruising and pattern tours functions after a short pause**

● **Alarm triggering, the alarm can trigger preset, auto scan, cruising and pattern tours functions**

## 2.2 Integrated Universal Speed Change Rotator

● **Delicate stepping motor, stable, sensitive and accurate**

● **360° continuous pan without blind area**

● **Stepless speed change, auto zoom/speed matching**

● **Auto overturn function**

● **Manual speed: Pan: 0.01° - 180° /S, Tilt: 0.01° - 120° /S**

● **Presets calling speed: 500° /S**

## 2.3 Built-in High Definition Day/Night Camera

● **Auto iris, auto back light compensation**

● **Auto/manual white balance**

● **Auto/manual focus**

● **Auto/manual brightness control**

● **480TV line**

● **Multiple kinds of camera for options**

# 3 Technical Data

## 3.1 Technical Parameters of the High-speed Dome

| Model | TC-2600BS High Speed Dome |
|---|---|
| Power Supply | AC24V/2.5A |
| Operating Temperature | -35 °C—60°C |
| Operating moisture | < 95% |
| Power Consumption | 50W |
| Communication | RS-485 bus, |
| Communication transmission speed | 2400/4800/9600BPS |
| Protocols | Pelco-D, Pelco-P Compatible |
| Pan Rotation | 0.01°-180° /s |
| Tilt Rotation | 0.01° -120° /s |
| Pan/Tilt Accuracy | +/- 0.07° |
| Preset Speed | 500° /s |
| Pan Angle | 360° Continuously |
| Tilt Angle | 90° |
| Size | 364 x 350 x 202mm |
| Weight | 5.6kg |
| Preset Positions | 220 |
| Auto Scan | 8 Groups |
| Cruise Track | 8 Groups |
| Cruise Points Qty per cruise group | 32 Preset Positions |
| Pattern Tours | 4 Groups |
| Alarm | 6 alarm inputs and 2 outputs |
| Privacy Zone | 8 zones |

## 3.2 Camera Parameter for High-speed Dome

| Sub Model | TC-D2618BNS | TC-D2618BS | TC-D2626BS | TC-D2636BS | TC-D2622BS | TC-D2627BS | TC-D2630BS |
|---|---|---|---|---|---|---|---|
| Sensor | 1/4" SONY Super HAD CCD | 1/4" SONY Exview HAD CCD | | | 1/4" SONY Super HAD CCD | 1/4" SONY Exview HAD CCD | |
| Horizontal Resolution | 480TVL | | | | | | 520TVL |
| Camera | SONY 45CP | SONY 480CP | SONY 980P | SONY 1000P | CNB VP-200L | LG LVC-C372HP | SANYO VCC-MD600 |
| Focus Length | F4.1mm～73.8mm | | F3.5mm～91.0mm | F3.4mm～122.4mm | F3.9mm~85.8mm | F3.25mm～88.0mm | F3.5mm～105mm |
| Optical Zoom | 18X | | 26X | 36X | 22X | 27X | 30X |
| Digital Zoom | 12X | | | | 10X | | 16X |
| Minimum Illumination | 1.0Lux | 0.7 Lux / 0.01 Lux | 1.0 Lux / 0.01 Lux | 1.4 Lux / 0.01 Lux | 1.0 Lux / 0.01 Lux | 1.0 Lux / 0.05 Lux | 0.8 Lux / 0.04 Lux |

| Video Output | 1Vp-p75 ohms | | | |
|---|---|---|---|---|
| Back Light Compensation | Auto | | | |
| Focus | Auto/Manual | | | |
| Iris | Auto/Manual | | | |
| S/N Ratio | ≥50dB | | | |
| Electric Shutter | 1/50~1/10000s | 1/1~1/10000s | 1/50~1/10000s | 1/1~1/10000s |

# 4 Installation Guide

## 4.1 Installation Preparation

### Video Coaxial Cables

| Mode | Max Distance |
|---|---|
| RG59/U | 750ft(229m) |
| RG6/U | 1,000ft(305m) |
| RG11/U | 1,500ft(457m) |

## 4.2 Structure



Base Plate

Dome Body

Dome Housing
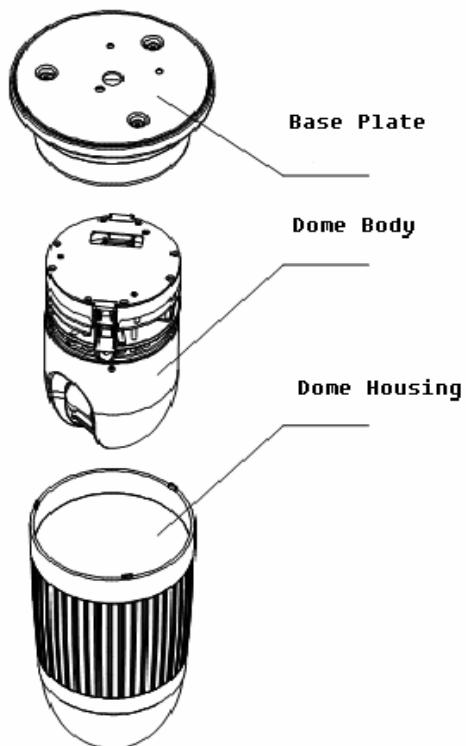
## 4.3 Installation Size
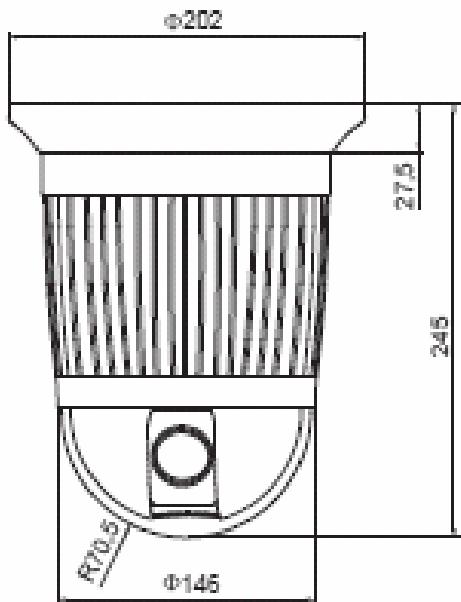


## 4.4 Installation Procedures

**\*Notice: The surface mount speed dome should be applied to hard ceiling.   The wall must be thick enough to install the expansion screws and can bear 4 times the weight of the dome camera itself.**

**(1)   Open the reverse turning board on the base plate. Use the 3 holes on the bottom of the base plate as a location to bore 3 holes on the ceiling.**
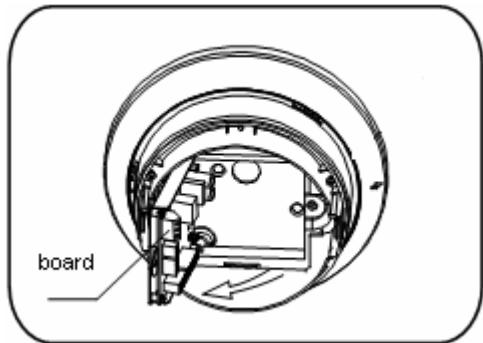


**(2)  Bore 3 holes on the ceiling.**
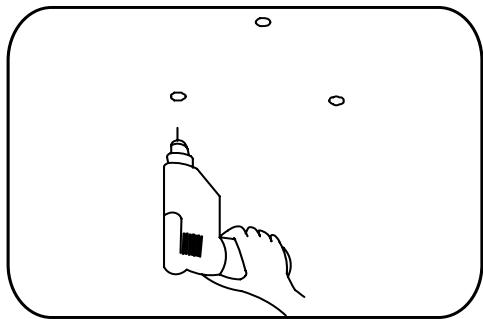
**(3) Mount 3 expansion screws into the holes.**



board

the 3 expansion screws
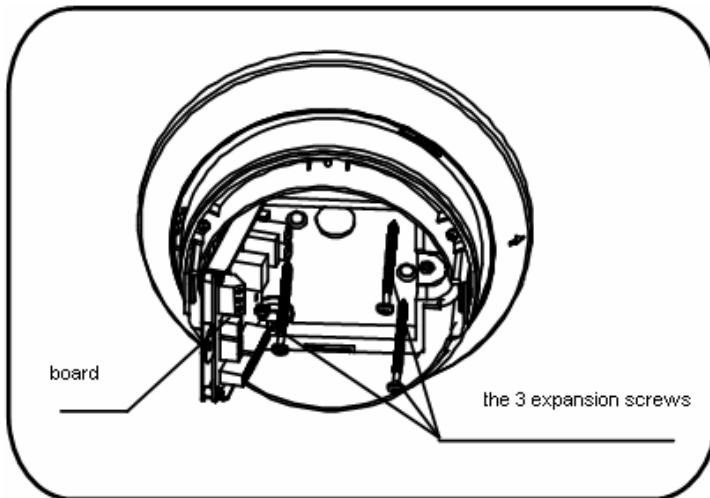
**(4) To lock the base plate to the dome housing, line up the A and B tabs on the dome body with the A and B label on the dome base. Push in on the tabs. Insert one side and then the other side. Continue pushing one the ends of the tabs until both sides click into place. Make sure the plug-in on the dome body is fully locked by the socket on the base plate. Then press the dome body lightly and check if the dome body is fully locked to avoid shedding and abrasion with the dome cover.**



base plate

locators

dome body
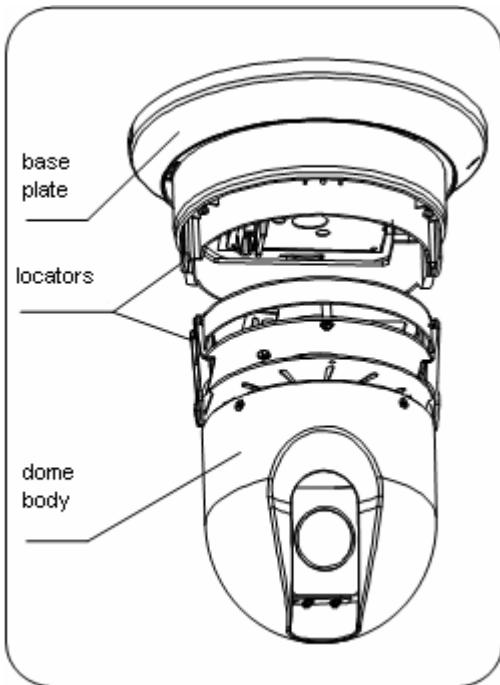
**(5)** **Match the 3 locators on the housing with the gaps one the plate and then turn the housing clockwise. Then pull down the housing lightly to check the firmness of installation. Then screw on the dome cover to the dome housing.**
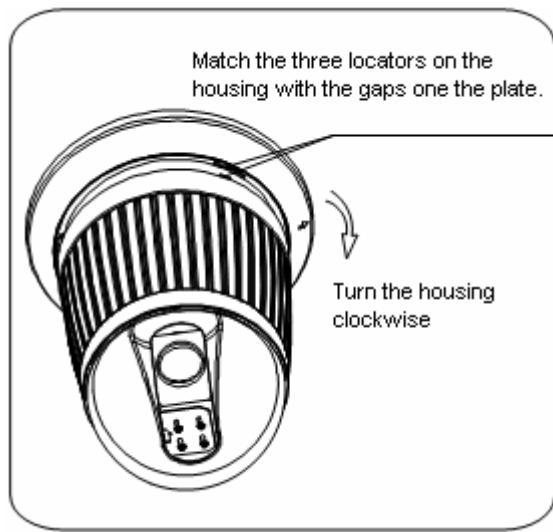


**(6)** **Cable Connection:**
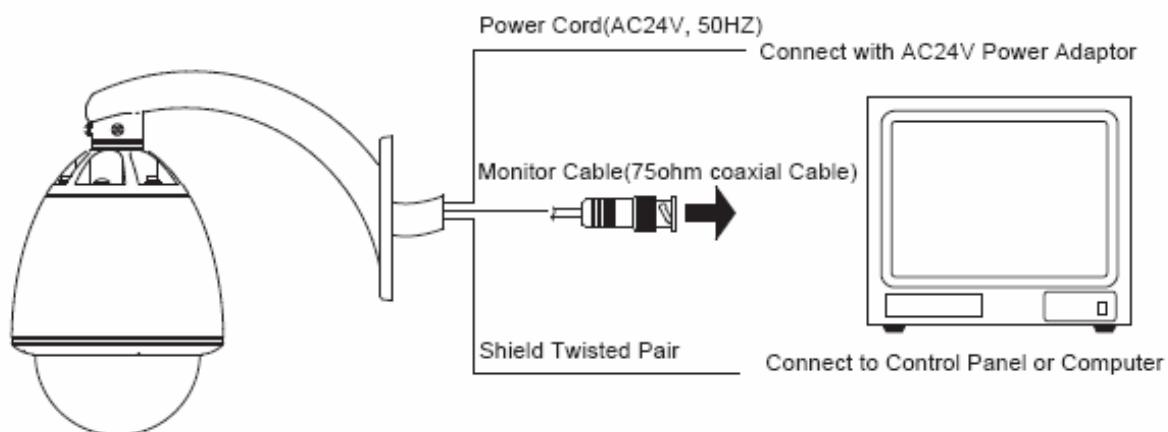
# 5 Settings

## 5.1 Interface
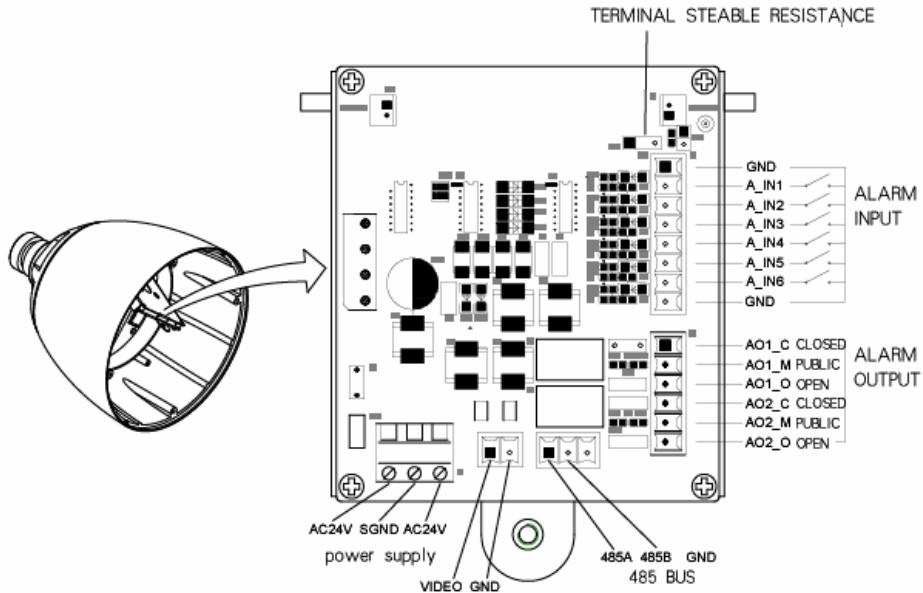


## 5.2 Dome Address, Transmission Speed, Protocol Setting

Before the dome is installed, the communication protocol, baud rate and dome address, should be confirmed. Set the DIP switch, keeping the setting consistent with the control system. The relative DIP switch site and connecting wires are diagramed below for reference.

SW2:



SW1:
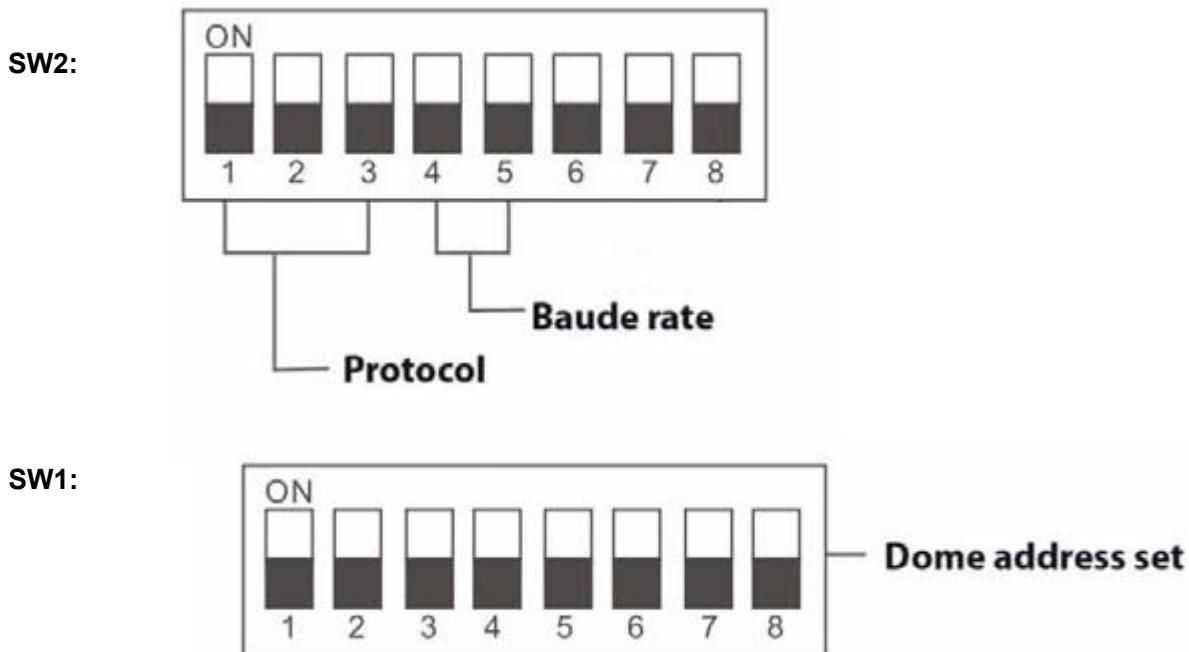
**\*Notice:** **"1" means "on" status and "0" means "off" status.**

**Protocol Setting**

| Protocols | Bit 1 | Bit 2 | Bit 3 |
|---|---|---|---|
| PELCO_P | 1 | 0 | 0 |
| PELCO_D | 0 | 1 | 0 |
| PRESET | … | … | … |

**\*Notice: The factory default protocol is PELCO_D**

**Transmission Speed Setting**

| Baud Rate | 4 Bit | 5 Bit |
|---|---|---|
| 9600 | 0 | 0 |
| 4800 | 1 | 0 |
| 2400 | 0 | 1 |
| PRESET | 1 | 1 |

**Dome Address Setting**

**PELCO-P:**

| Address | Bit 1 | Bit 2 | Bit 3 | Bit 4 | Bit 5 | Bit 6 | Bit 7 | Bit 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| … | … | … | … | … | … | … | … | … |
| 254 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 255 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**PELCO-D:**

| Address | Bit 1 | Bit 2 | Bit 3 | Bit 4 | Bit 5 | Bit 6 | Bit 7 | Bit 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| … | … | … | … | … | … | … | … | … |
| 253 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 254 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

# 6 Preset Setting

Speed dome camera supports 220 preset positions. The code numbers 1- 64 and 100-255 represent the 220 preset positions. You can activate some special functions by calling upon code number 65-99.

| No | Command | Command Packet | Comments |
|---|---|---|---|
| 1 | Start Auto Scan | Call upon 99 | Default to start the first group of auto scan |
| | Start Sequence | Call upon 98 | Default to start the first group of sequence |
| | Start Pattern Tours | Call upon 97 | Default to start the first group of Pattern Tours |
| | Stop Auto mode/End setting | Call upon 96 | |
| 2 | Set the right limit for scan | Set 93 | Default to set the first group; PP means speed value: 1-30; |
| | Set the left limit for scan | Set 92 | |
| | Set speed for scan | Set 87 + Call upon pp | |
| 3 | Start setting preset position for sequence | Set 84 + Call upon pp+… | PP means the No. of preset position(max 32); qq means standing time: 1-60s, default to set the first group. |
| | Stop setting preset position for sequence | Call upon 96 | |
| | Set residence time for sequence | Set 83 + Call upon qq | |
| 4 | Start pattern tours setting | Set 86 | Default to set the first group. |
| | Stop pattern tours setting | Call upon 96 | |
| 5 | Start the scan of group N | Call upon 80 + call upon pp + call upon 99 | PP means group No.:1-8, qq means speed value:1-30 |
| | Set the right limit for the scan of group N | Call upon 80 + call upon pp + set 93 | |
| | Set the left limit for the scan of group N | Call upon 80 + call upon pp + set 92 | |
| | Set the speed for group N | Call upon 80 + call upon pp + set 87 + call upon qq | |

| | | | |
|---|---|---|---|
| 6 | Start sequence of group N | Call upon 80 + call upon pp + call upon 98 | PP means group No.:1- 8, qq means preset position No. (max 32), n means standing time: 1-60s |
| | Start setting preset position for sequence of group N | Call upon 80 + call upon pp + set 84 + call upon qq+ … | |
| | Stop setting preset position for the sequence of group N | Call upon 96 | |
| | Set standing time for the sequence of group N | Call upon 80 + call upon pp + set 83 + call upon n | |
| 7 | Start pattern tour of group N | Call upon 80 + call upon pp + call upon 97 | PP means group No.: 1-4 |
| | Start setting pattern tour of group N | Call upon 80 + call upon pp + set 86 | |
| | Stop setting pattern tour of group N | Call upon 96 | |
| 8 | Open the menu | Call upon 95 | |
| 9 | Remote reset | Call upon 94 | |
| 10 | Restore factory setting | Call upon 82 | |
| 11 | Start auto flip | Call upon 81 | |
| | Stop auto flip | Set 81 | |
| 12 | Start idle action | Call upon 79 | |
| | Stop idle action | Set 79 | |
| 13 | Set idle action | Set 77 + call upon pp | "PP" means function No.: 1-4<br>"1" means preset position, default as No.1 preset position;<br>"2" means auto scan, default as scan of group 1;<br>"3" means cruise, default as sequence of group 1;<br>"4" means pattern tour, default as pattern tour of group 1. |
| 14 | Set idle time | Set 72 + call upon pp | PP means idle time: 1- 4 min |

| 15 | Display information | Set 74 + call upon pp | "1" means ptz location information; "2" means temperature control information; "3" means alarm information "4" means system status system; "5" means product ID No. and Version No. |
|---|---|---|---|
| 16 | Set alarm triggering | Set 76 + call upon pp | PP means function No.: 1-4 "1" means preset position, the first alarm input triggers the second alarm input, and then the second alarm input will trigger the third alarm input and by analogy. "2" means auto scan, default as scan of group 1; "3" means cruise, default as cruise of group 1; "4" means pattern tour, default as pattern tour of group 1. |
| 17 | Start alarm triggering | Call upon 78 | |
| | Stop alarm triggering | Set 78 | |
| 18 | Open the alarm output "n" | Call upon 80 + call upon n + call upon 70 | n: means auxiliary switch No.(1- 2) |
| | Close the alarm "n" | Call upon 80 + call upon n + set 70 | |
| 19 | Set privacy zone of group n | Call upon 80 + call upon pp + set 71 | PP: privacy zone number, 1-8 |
| | Delete privacy zone of group n | Call upon 80 + call upon pp + call upon71 | |
| | Start privacy zone function | Set 67 | |
| | Close privacy zone function | Call upon 67 | |

Notice:   1. "Call upon n" means call upon preset position "n";

2. "Set n" means set preset position "n"

3. "Set m + call n" means set preset position "m" firstly, and then call upon preset position "n"

4. "Set m + call n + … " means set preset position "m" firstly, and then call upon preset position "n", "…" means the user can call upon several preset positions.

# 7 The OSD Menu Setting

## 7.1 Operation Method of the Menu

The user can call upon preset position 95 to enter the setting interface of the OSD menu. After entering the setting menu, a row of information will be displayed as follows (the screen can only show a single-step item of the following menu):

The operations will be implemented by commands as "Focus in/out" and "Iris on/off".
"Focus in": Up
"Focus out": Down
"Iris on": Confirm
"Iris off": Cancel

The user can also operate the OSD menu by Joystick
"Up": Move the joystick upward to select.
"Down": Move the joystick downward to select.
"Left": Move the joystick leftward to confirm.
"Right": Move the joystick rightward to cancel.

For example:
1.  In status as the previous picture showed, the user press "Iris on" to enter BACKLIGHT setting:

 1. BACKLIGHT        ON/OFF

2.  Press "Focus in/out" to select wanted item.

3.  And then press "Iris on" to preserve the selected items or press "Iris off" to cancel the selected item and go back to previous Menu.

4.   After all the function settings are settled down, switch to the item No.16 and press "Iris on" to quit from the menu.

## 7.2 OSD Menu Tree

```
  _ _ _ _ SYSTEM INFORMATION
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
  DOME ID  : 0 1 2 3 4 5 6 7 8 9
  ADDRESS  : 0 0 1
  BAUDRATE : 9600,N,8,1
  PROTOCOL : TIANDY
  TEMP    : 31℃
  ALARM   : 000000 00
  <OTHER>


  BACK
  EXIT
```

```
          DISPLAY
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 DOME     :OFF
 PRESET   :OFF
 MOTION   :OFF
 ZONES    :OFF
 DATE/TIME :OFF
 PAN/TILT  :OFF/2SEC/5SEC/10SEC
 ALARM    :OFF
 <DISPLAY POSITION>
 BACK
 EXIT
```

```
        MAIN MENU
 _ _ _ _ _ _ _ _ _ _ _ _ _ _
 LANGUAGE: ENGLISH
 <SYSTEM INFORMATION>
 <DISPLAY SETUP>
 <DOME SETTINGS>
 <CAMERA>
 <MOTION>
 RESTART
 FACTORY  DEFAULTS

 HELP
 EXIT
```

```
       DOME SETTINGS
 _ _ _ _ _ _ _ _ _ _ _ _ _ _
 <IDLE>
 <ALARM>
 <AUX>
 <PRIVACY MASK>
 <CLOCK>
 <PASSWORD>
 <DOME TITLE>
 <OTHERS>

 BACK
 EXIT
```

```
         MOTION
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 <PRESET>
 <SCAN>
 <SEQUENCE>
 <PATTERN>
 <ZONES>
 <TIMING ACTION>
 <AUTO TRACKING>

 BACK
 EXIT
```

```
       CAMERA SETTING
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 AUTO FOCUS  : OFF
 DIGITAL ZOOM : OFF
 BACKLIGHT   : OFF
 IMAGE FREEZE : OFF
 ZOOM SPEED  : LOW/ NORMAL/HIGH
 DAY NIGHT   : AUTO/BW/COCLOR
 <ADVANCED>

 BACK
 EXIT
```

# MOTION

```
         MAIN MENU                              MOTION
─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─            ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─

 LANGUAGE:  ENGLISH             <PRESET>                    ━━━━ A
 <SYSTEM INFORMATION>           <SCAN>                      ━━━━ B
 <DISPLAY SETUP>                <SEQUENCE>                  ━━━━ C
 <DOME SETTINGS>                <PATTERN>                   ━━━━ D
 <CAMERA>                       <ZONES>                     ━━━━ E
 <MOTION>                       <TIMING ACTION>             ━━━━ F
 RESTART                        <AUTO TRACKING>             ━━━━ G
 FACTORY  DEFAULTS
                                 BACK
 HELP                            EXIT
 EXIT
```

## A. PRESET

```
          MOTION                              PRESET
─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─        ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
 <PRESET>                       PRESET NO. : 001           ━━━━ A1
 <SCAN>                         TITLE    : PRESET 01       ━━━━ B1
 <SEQUENCE>                     CALL                       ━━━━ C1
 <PATTERN>                      <SET>                      ━━━━ D1
 <ZONES>                        DELETE                     ━━━━ E1
 <TIMING ACTION>
 <AUTO TRACKING>                BACK
                                EXIT
 BACK
 EXIT
```

**A1. PRESET NO.**

**Move the cursor to PRESET NO.， press the key IRIS ON(key on control keyboard) to enter the edition mode of preset No., move the joystick upward and downward to select number. Then press IRIS ON to confirm.**

**B1. TITLE**

**Move the cursor to TITLE and press IRIS ON to enter the edition mode of preset title.**

**C1.CALL**

**MOVE the cursor to CALL and press IRIS ON to call upon the current preset position.**

**D1.SET**

**Move the cursor to SET and press IRIS ON the enter preset setting mode. Then the sentence "PRESS IRIS ON TO CONFIRM"will appear on the screen. Move the joystick to do PTZ move and press IRIS ON to confirm the preset you want.**

**E1.DELETE**

**Move the cursor to DELETE and press IRIS ON to delete the current preset position.**

## B.SCAN

```
┌─────────────────────────┐        ┌─────────────────────────┐
│         MOTION          │        │          SCAN           │
│  ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─  │        │  ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─  │
│  <PRESET>               │        │ SCAN NO. : 01           │━━━ A1
│  <SCAN>                 │        │  TITLE  : SCAN 1        │━━━ B1
│  <SEQUENCE>             │        │  START                  │━━━ C1
│  <PATTERN>              │   ━━▶  │ <LEFT  LIMIT>           │━━━ D1
│  <ZONES>                │        │ <RIGHT LIMIT>           │━━━ E1
│  <TIMING ACTION>        │        │  SCAN SPEED : 20        │━━━ F1
│  <AUTO TRACKING>        │        │                         │
│                         │        │  BACK                   │
│  BACK                   │        │  EXIT                   │
│  EXIT                   │        │                         │
└─────────────────────────┘        └─────────────────────────┘
```
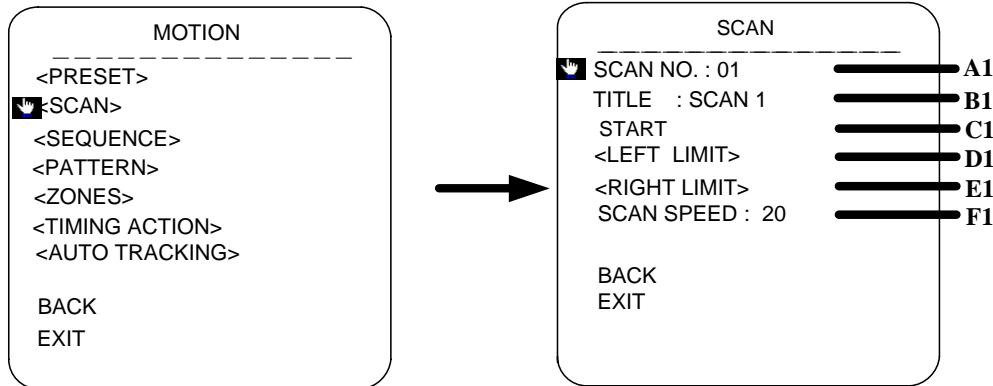
**A1.SCAN NO.**

Move the cursor to SCAN NO. and press the key IRIS ON(key on control keyboard) to enter the

edition mode of scan No., move the joystick upward and downward to select number. Then

press IRIS ON to confirm.

**B1. TITLE**

Move the cursor to TITLE and press IRIS ON to enter the edition mode of scan title.

**C1.START**

MOVE the cursor to START and press IRIS ON to start the current scan.

**D1.<LEFT LIMIT>**

Move the cursor to <LEFT LIMIT> and press IRIS ON to start setting the left limit of the current

scan. Then the sentence "PRESS IRIS ON TO CONFIRM"will appear on the screen. Move the

joystick and press IRIS ON to confirm.

**E1. <RIGHT LIMIT>**

Move the cursor to <RIGHT LIMIT> and press IRIS ON to start setting the right limit of the

current scan. Then the sentence "PRESS IRIS ON TO CONFIRM"will appear on the screen.

Move the joystick and press IRIS ON to confirm.

**F1. SCAN SPEED**

Move the cursor to SCAN SPEED and press IRIS ON to enter the edition mode of scan speed.
Move the joystick upward and downward to select a speed scale, then press IRIS ON to
confirm. The speed scale ranges from 1~30.

## C.SEQUENCE

```
          MOTION                              SEQUENCE
    _ _ _ _ _ _ _ _ _ _ _ _ _             _ _ _ _ _ _ _ _ _ _ _ _ _
  <PRESET>                          ☞ SEQ NO. : 1  ━━━━━━━━ A1
  <SCAN>                              TITLE : SEQ 1 ━━━━━━━━ B1
  <SEQUENCE>                          START        ━━━━━━━━ C1
  <PATTERN>                           <SEQUENCE SET> ━━━━━━ D1
  <ZONES>                             DELETE       ━━━━━━━━ E1
  <TIMING ACTION>
  <AUTO TRACKING>

  BACK                                BACK
  EXIT                                EXIT
```
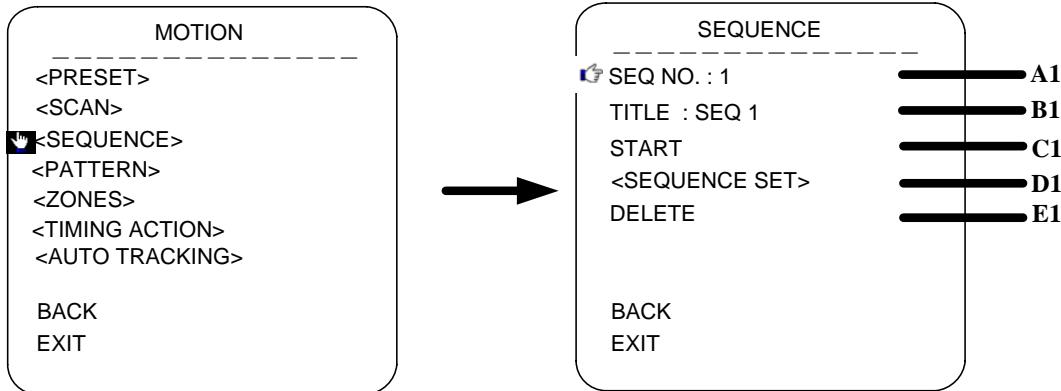
**A1.SEQ NO.**

**Move the cursor to SEQ NO. and press the key IRIS ON(key on control keyboard) to enter the**

**edition mode of sequence No., move the joystick upward and downward to select number.**

**Then press IRIS ON to confirm.**

**B1. TITLE**

**Move the cursor to TITLE and press IRIS ON to enter the edition mode of sequence title.**

**C1.START**

**MOVE the cursor to START and press IRIS ON to start the current sequence.**

**D1.<SEQUENCE SET>**

**Press IRIS ON to enter into the sequence setting**

```
         SEQUENCE                              SEQUENCE
  _ _ _ _ _ _ _ _ _ _ _ _ _ _             _ _ _ _ _ _ _ _ _ _ _ _ _ _
  SEQ NO. : 1                          NO.     PRESET    INTERVAL
  TITLE : SEQ 1                    >>  0 1     0 0 2       0 3
  START                               0 2     0 0 1       0 3
☞ <SEQUENCE SET>                      0 3     - - -       - -
  DELETE                              0 4     - - -       - -
                                      0 5     - - -       - -
                                      0 6     - - -       - -
                                   ☞EDIT 0 1  0 0 3       0 3   INS
  BACK                                 BACK              EXIT
  EXIT
```
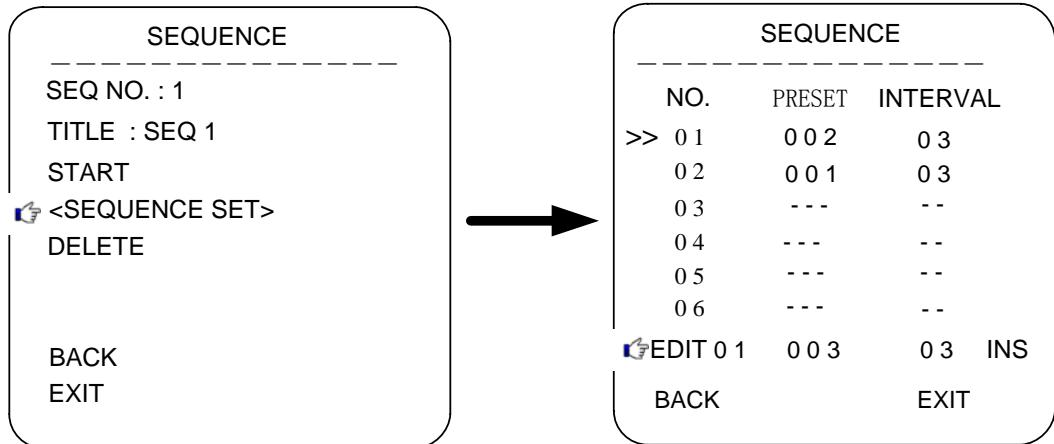
**Move the cursor to EDIT and press IRIS ON to enter edition mode. Move the joystick rightward**

**and leftward to select item.**

**a. When the < > is on the item NO., move joystick upward and downward to select the NO.of**

**the preset in a sequence. There are up to 32 presets in a single sequence.**

**b. When the < > is on the item PRESET, move the joystick upward and downward to select the**

**preset NO. you want to add in the sequence.**

**c.When the < > is on the item INS, move the joystick upward and downward to select edition**

**mode as "insert", "ok" and "delete".**

**d. Press IRIS OFF to quit the edition.**

## D. PATTERN

```
        MOTION                          PATTERN
 _ _ _ _ _ _ _ _ _ _           _ _ _ _ _ _ _ _ _ _
 <PRESET>                   ☞ PATTERN NO. : 1          ────── A1
 <SCAN>                        TITLE   : PATTERN 1     ────── B1
 <SEQUENCE>                    START                   ────── C1
 <PATTERN>                     <SET>                   ────── D1
 <ZONES>                       DELETE                  ────── E1
 <TIMING ACTION>
 <AUTO TRACKING>

 BACK                          BACK
 EXIT                          EXIT
```
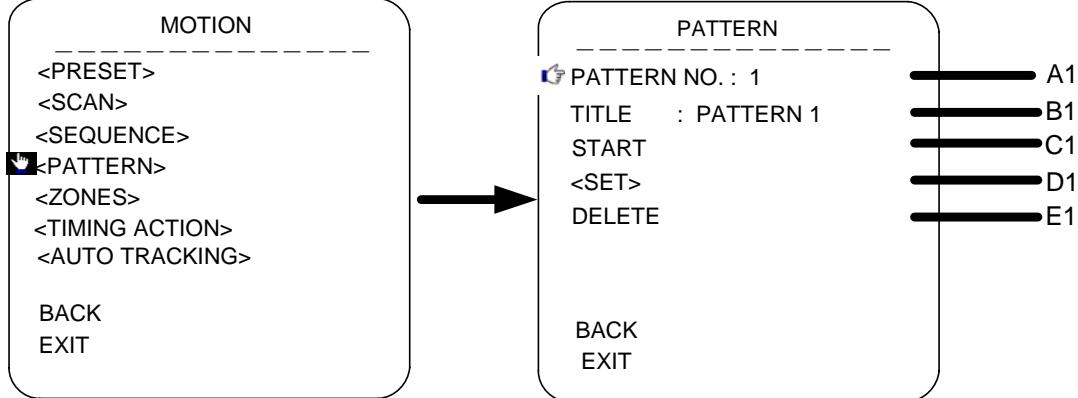
**A1.PATTERN NO.**

**Move the cursor to PATT and press the key IRIS ON(key on control keyboard) to enter the**

**edition mode of sequence No., move the joystick upward and downward to select number.**

**Then press IRIS ON to confirm.**

**B1. TITLE**

**Move the cursor to TITLE and press IRIS ON to enter the edition mode of sequence title.**

**C1.START**

**MOVE the cursor to START and press IRIS ON to start the current Pattern.**

**D1. <SET>**

**Move the cursor to SET and press IRIS ON the enter pattern setting mode. Then the sentence**

**"PRESS IRIS ON TO CONFIRM"will appear on the screen. Move the joystick to do PTZ move**

**and press IRIS ON to confirm.**

**E1.DELETE**

**Move the cursor to DELETE and press IRIS ON to delete the current pattern.**

## E.<ZONES>

```
        MOTION                          ZONES
 _ _ _ _ _ _ _ _ _ _ _ _       _ _ _ _ _ _ _ _ _ _ _ _
 <PRESET>                    ☞ ZONE IS NOT SET  —  ●————— A1
 <SCAN>                        ZONE NO. :  1        ●————— B1
 <SEQUENCE>                    TITLE NO. :  ZONE 1  ●————— C1
 <PATTERN>                     <LEFT LIMIT>         ●————— D1
 ✋<ZONES>                      <RIGHT LIMIT>        ●————— E1
 <TIMING ACTION>               DELETE               ●————— F1
 <AUTO TRACKING>

 BACK                          BACK
 EXIT                          EXIT
```
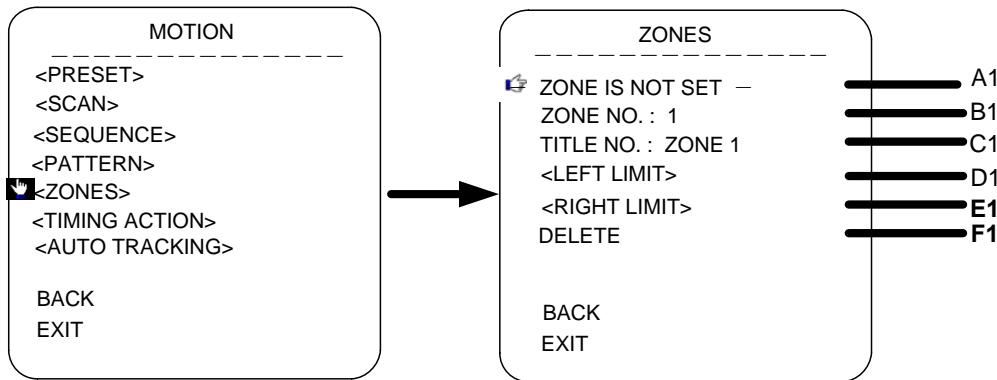
**A1.ZONE INFORMATION**

**B1.ZONE NO.**

**Move the cursor to ZONE NO. and press the key IRIS ON(key on control keyboard) to enter the edition mode of zone No., move the joystick upward and downward to select number. Then press IRIS ON to confirm.**

**B1. TITLE**

**Move the cursor to TITLE and press IRIS ON to enter the edition mode of zone title.**

**C1.<LEFT LIMIT>**

**Move the cursor to <LEFT LIMIT> and press IRIS ON to start setting the left limit of the current zone. Then the sentence "PRESS IRIS ON TO CONFIRM"will appear on the screen. Move the joystick and press IRIS ON to confirm.**

**E1. <RIGHT LIMIT>**

**Move the cursor to <RIGHT LIMIT> and press IRIS ON to start setting the right limit of the current zone. Then the sentence "PRESS IRIS ON TO CONFIRM"will appear on the screen. Move the joystick and press IRIS ON to confirm.**

**F1.DELETE**
**Press IRIS ON to delete the current zone.**

## F.TIMING ACTION
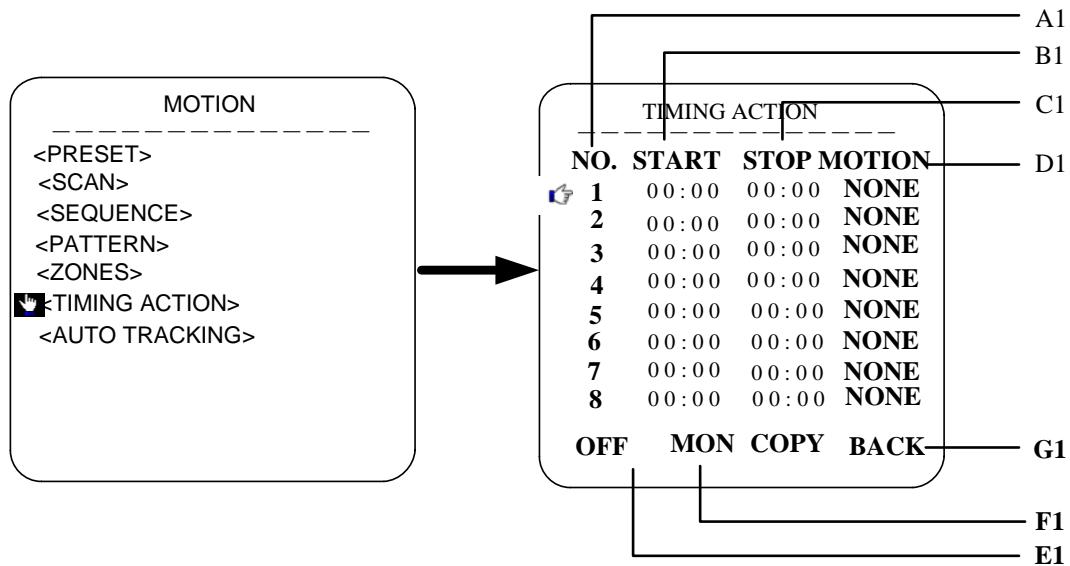


**A1.SHEDULE NO.**

**B1.START**

    **Start time of timing action.**

**C1.STOP**

    **Stop time of timing action.**

**D1.MOTION**

    **Timing action modes: PRESET 1-8, SCAN 1-4, SEQUENCE 1-4, PATTERN 1-4**

**E1：ON/OFF**

    **Press IRIS ON to enable or disable the timing action**

**F1：COPY**

    **User can copy a schedule to other 6 days in a week.**

**G1. BACK**

  **Go back to upper menu**

## G. AUTO TRACKING

```
          MOTION
     _ _ _ _ _ _ _ _ _ _ _ _ _
    <PRESET>
     <SCAN>
     <SEQUENCE>
     <PATTERN>
     <ZONES>
      <TIMING ACTION>
    <AUTO TRACKING>
```

```
        AUTO TRACKING
     _ _ _ _ _ _ _ _ _ _ _ _ _

    SENSITIVITY :  06                  A1
    FRAME RATE:  MID                   B1
    ENABLE: OFF                        C1




      BACK
       EXIT
```
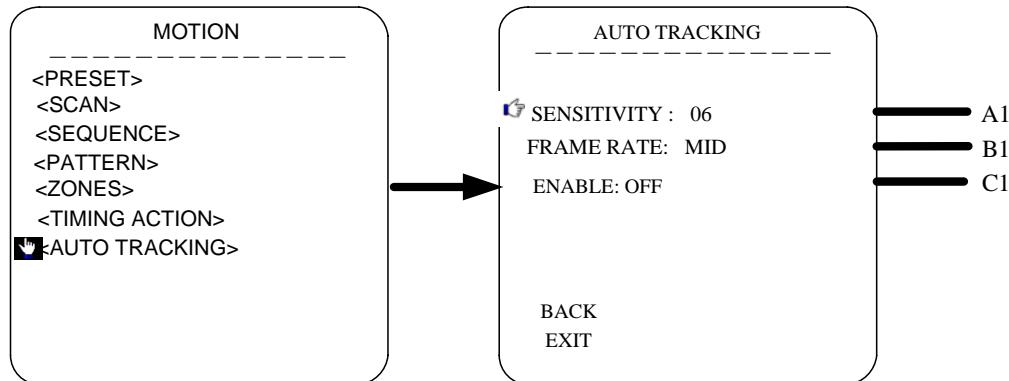
**A1.SENSITIVITY**

**Secitivity of auto tracking funtion. Scale from1 to 15.**

**B1.FRAME RATE**

**Setting of the frame inspection rate.**

**C1.ENABLE**

**Enabel or disable the auto tracking function.**

**\*Notice: The auto tracking function is only for the speed dome with the camera module which support auto tracking.**

# DOME SETTING

```
        MAIN MENU
   _ _ _ _ _ _ _ _ _ _ _ _ _

    LANGUAGE:  ENGLISH
    <SYSTEM INFORMATION>
    <DISPLAY SETUP>
   <DOME SETTINGS>
    <CAMERA>
    <MOTION>
    RESTART
    FACTORY  DEFAULTS

    HELP
    EXIT
```

```
       DOME SETTINGS
   _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
   <IDLE>                          A
    <ALARM>                        B
    <AUX>                          C
    <PRIVACY MASK>                 D
    <CLOCK>                        E
    <PASSWORD>                     F
    <DOME TITLE>                   G
    <OTHERS>                       H

    BACK
    EXIT
```

## A. IDLE ACTION

```
     DOME SETTINGS
 _____
👆<IDLE>
  <ALARM>
  <AUX>
  <PRIVACY MASK>
  <CLOCK>
  <PASSWORD>
  <DOME TITLE>
  <OTHERS>

  BACK
  EXIT
```

```
       IDLE  ACTION
 _____
👆TIME  :  3 0 SEC              ── A1

  ACTION :   NO ACTION          ── B1




  BACK
  EXIT
```
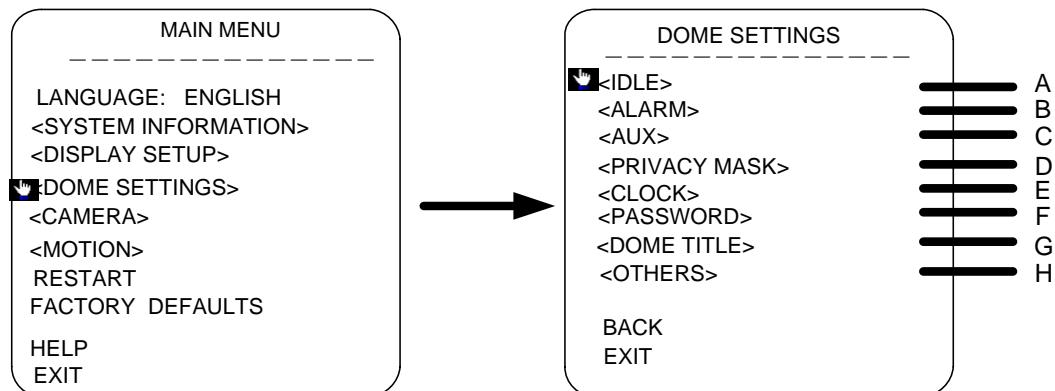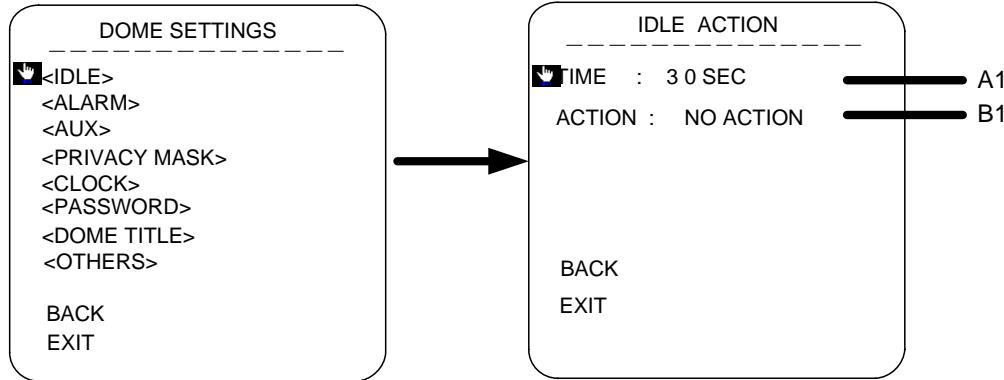
**A1：IDLE ACTION**

**Move the cursor to TIME, press IRIS ON to enter the edition mode of idle action starting time.**

**The time could be 30seconds, 2 minutes, 5 minutes or 10 minutes. Press IRIS ON to confirm.**

**B1： ACTION**

**Move the cursor to ACTION and press the key IRIS ON to edit the idle action type like preset,**

**scan, sequence or none.**


## B．ALARM

```
     DOME SETTINGS
 _____
  <IDLE>
👆<ALARM>
  <AUX>
  <PRIVACY MASK>
  <CLOCK>
  <PASSWORD>
  <DOME TITLE>
  <OTHERS>

  BACK
  EXIT
```

```
       ALARM SETTING
 _____
👆ALARM NO.   : 1                    ── A1
  INPUT STATE   : CLOSE              ── B1
  ALARM MODE  :  OFF                 ── C1
  TRIGGER ACTION :  NONE             ── D1
  ALARM OUT   : OFF/OUT1/OUT2/ALL    ── E1
  CANCEL TIME  : 10SEC               ── F1
  START TIME   : 0 0 : 0 0           ── G1
  STOP TIME    : 0 0 : 0 0           ── H1
  BACK
  EXIT
```
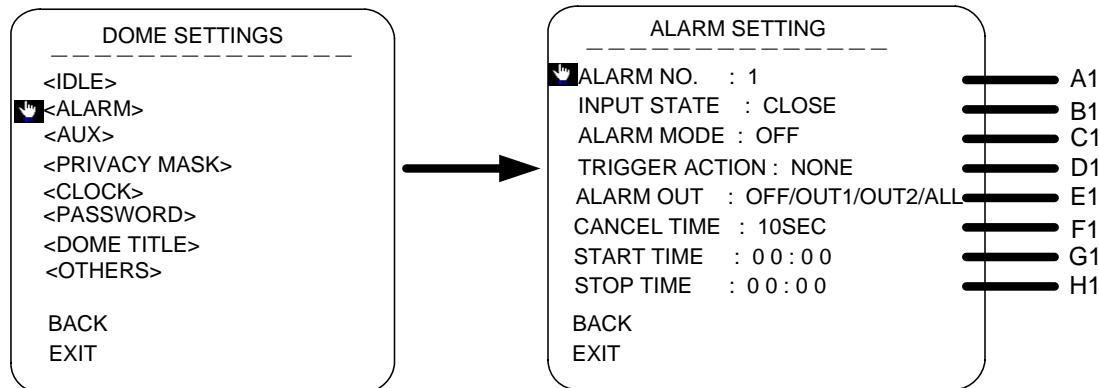
**A1. ALARM NO.**

**Move the cursor to ALARM NO., press IRIS ON to select the channel No. of alarm input. When**

**the channel No. has been changed, the system will update all the relative settings and**

**displayed data.**

**B1. INPUT STATE**

**Move the cursor to INPUT STATE, press IRIS ON to set the current state of alarm input as open**

**or close.**

**C1. ALARM MODE**

Move the cursor on ALARM MODE to set the current mode of alarm as ON, OFF and AUTO.

**D1. TRIGGER ACTION**

Move the cursor on TRIGGER ACTION to set the action type triggered by alarm, such as

presets, sequence, pattern and scan.

**E1. ALARM OUT**

Move the cursor to ALARM OUT to select the alarm output channel.

**F1. CANCEL TIME**

Move the cursor to CANCEL TIME to set the duration of the alarm state.

**G1. START TIME**

START TIME means the time for opening the alarm when the alarm mode is auto.

**H1. STOP TIME**

STOP TIME means the time for closing the alarm when the alarm mode is auto.

## C. AUX
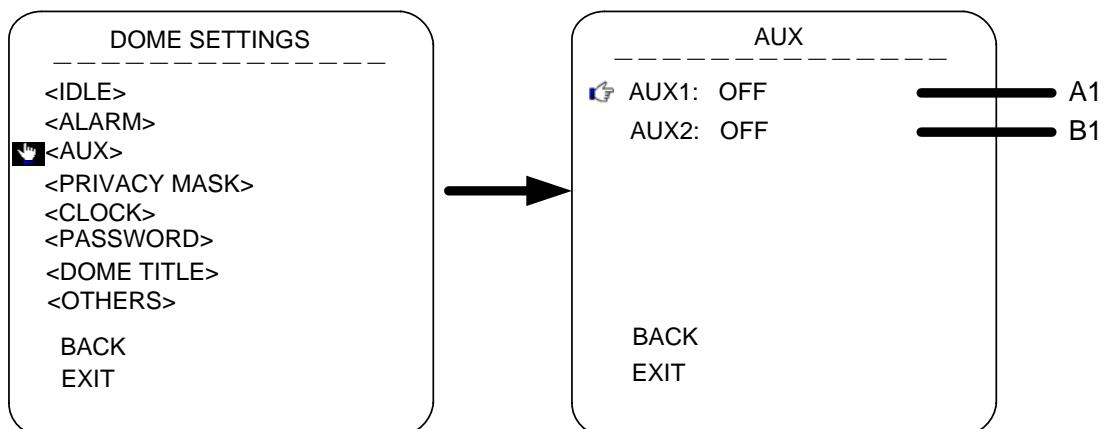


Move the cursor to open or close the AUX

## D. PRIVACY MASK

```
      DOME SETTINGS                           PRIVACY  MASK
  _ _ _ _ _ _ _ _ _ _ _ _ _                _ _ _ _ _ _ _ _ _ _ _ _ _
  <IDLE>                              MASK NO. : 1  ━━━━━━━  A1
  <ALARM>                            ENABLE : OFF  ━━━━━━━  B1
  <AUX>                              <SET>         ━━━━━━━  C1
  <PRIVACY MASK>                     DELETE        ━━━━━━━  D1
  <CLOCK>
  <PASSWORD>
  <DOME TITLE>
  <OTHERS>
                                      BACK
   BACK                               EXIT
   EXIT
```
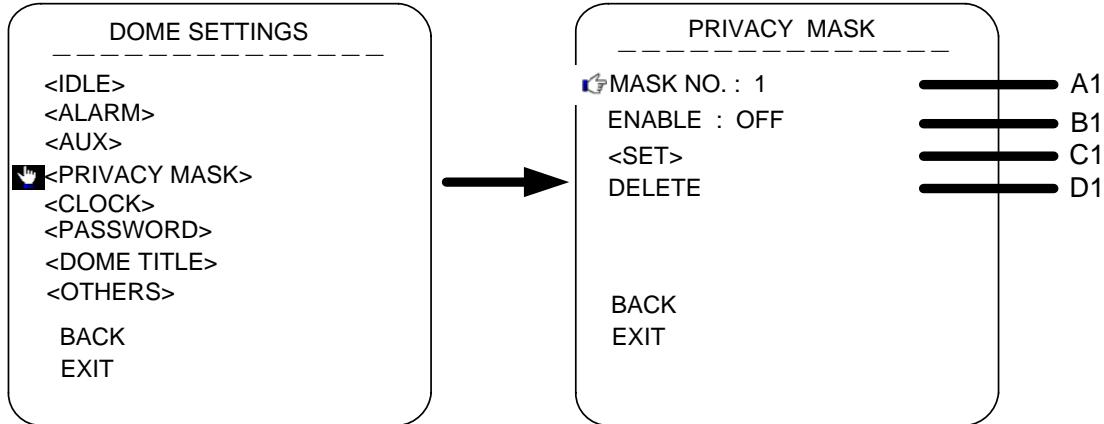
**A1. MASK NO.**

**Move the cursor to MASK NO. to set the NO. of privacy mask zone.**

**B1.ENABLE**

**Move the cursor to ENABLE to enable or disable the privacy mask zone.**

**C1.<SET>**

**.Move the cursor to <SET> and press IRIS ON to enter the edition mode of privacy mask zone.**

**Then the sentence "PRESS IRIS ON TO CONFIRM" will be displayed on the monitor. Use**

**joystick to move the dome to the area you want to cover and press IRIS ON to confirm. There**

**will be a privacy zone in the middle of the monitor. Move joystick upward, downward, leftward**

**and rightward to adjust the size of privacy zone.**

**D1. DELETE**

**Press IRIS ON to delete the current privacy zone.**

## E. CLOCK

```
      DOME SETTINGS                           DATE/TIME
  _ _ _ _ _ _ _ _ _ _ _ _ _                _ _ _ _ _ _ _ _ _ _ _ _ _
  <IDLE>                              DATE: 2008-01-01  ━━━━━━  A1
  <ALARM>
  <AUX>                              TIME: 00:00       ━━━━━━  B1
  <PRIVACY MASK>
  <CLOCK>
  <PASSWORD>
  <DOME TITLE>
  <OTHERS>
                                      SAVE          CANCEL
   BACK
   EXIT
```
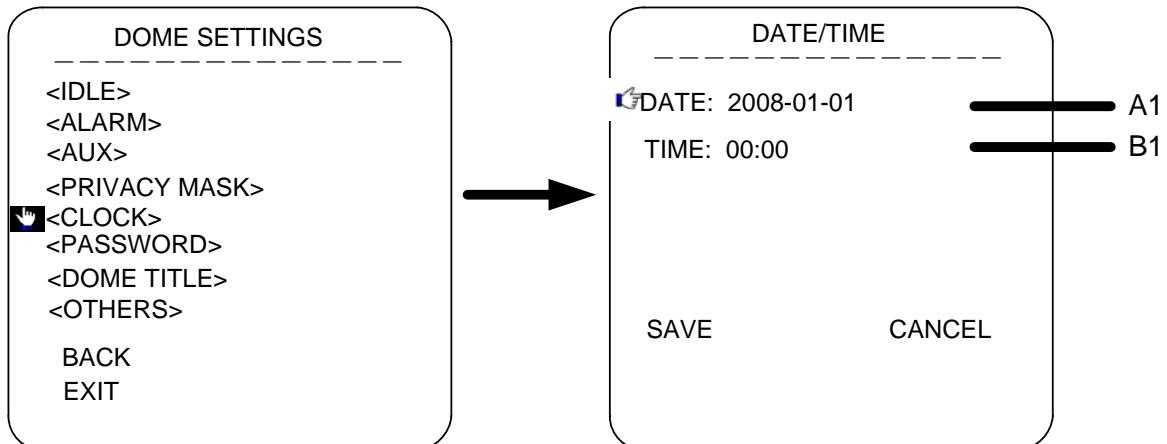
**A1：DATE**

Move the joystick leftward and rightward to select year, month and day. Move the joystick upward and downward to select the number.

**B1：TIME**

Move the joystick leftward and rightward to select hour and minute. Move the joystick upward and downward to select the number.

# F. PASSWORD

```
        DOME SETTINGS
   _ _ _ _ _ _ _ _ _ _ _ _ _
      <IDLE>
      <ALARM>
      <AUX>
      <PRIVACY MASK>
      <CLOCK>
   🖐<PASSWORD>
      <DOME TITLE>
      <OTHERS>

       BACK
       EXIT
```

```
          PASSWORD
   _ _ _ _ _ _ _ _ _ _ _ _ _
   👉 <EDIT PASSWORD>  ────── A1

      ENABLE : OFF     ────── B1



        BACK
        EXIT
```
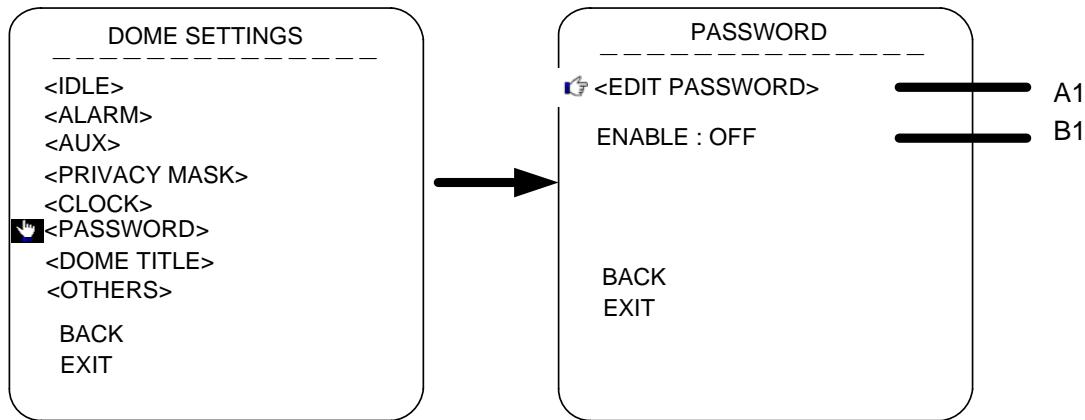
**A1.EDIT PASSWORD**

The factory default password is 111111. The old password is needed before setting a new one.

**B1.ENABLE**

Enable or disable the password protection for OSD menu

# G. DOME TITLE

```
        DOME SETTINGS
   _ _ _ _ _ _ _ _ _ _ _ _ _
      <IDLE>
      <ALARM>
      <AUX>
      <PRIVACY MASK>
      <CLOCK>
      <PASSWORD>
   🖐<DOME TITLE>
      <OTHERS>

       BACK
       EXIT
```

```
         DOME TITLE SET
   _ _ _ _ _ _ _ _ _ _ _ _ _
   👉 INPUT:<-_ _ _ _ _ _ _ _   ───── A1
      CAPS                     ───── B1

      A B C D E F G H I J
      K L M N O P Q R S T       ───── C1
      U V W X Y Z . <-


      OK          CANCEL
```
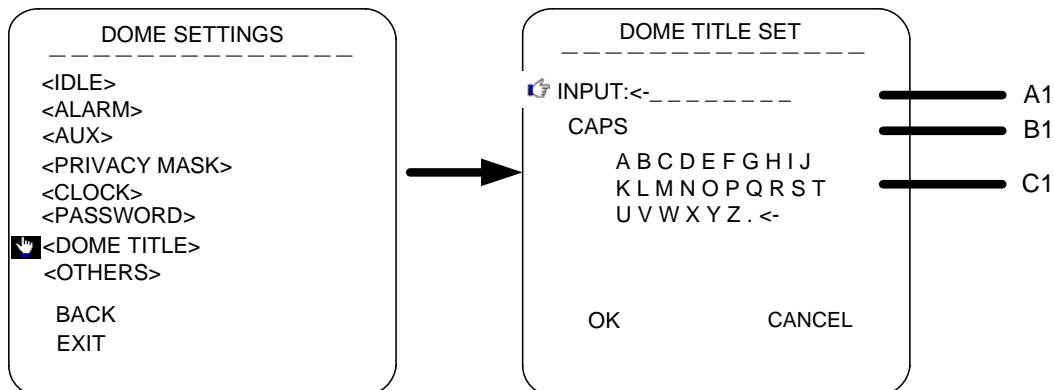
**A1. INPUT**
Move the cursor to INPUT and press IRIS ON to enter the title edition mode.

**B1. Move the cursor to CAPS. Press IRIS ON and move the joystick upward and downward to select capital and small letters.**

**C1. ALPHABET**
**Move the cursor to alphabet and press IRIS ON to select letters.**

## H. OTHERS

```
      DOME SETTINGS                              OTHERS
  _ _ _ _ _ _ _ _ _ _ _ _ _            _ _ _ _ _ _ _ _ _ _ _ _ _
  <IDLE>                              ⏎TEMP CONTROL  : COOL/AUTO/HEAT/OFF ───── A1
  <ALARM>                             PRESET FREEZE  : OFF                ───── B1
  <AUX>                               AUTO FLIP      : ON                 ───── C1
  <PRIVACY MASK>                      AUTO STOP TIME : 30SEC              ───── D1
  <CLOCK>                             MENU OFF TIME  : 5MIN               ───── E1
  <PASSWORD>                          <NORTH SET>                        ───── F1
  <DOME TITLE>
  <OTHERS>
   BACK                                BACK
   EXIT                                EXIT
```
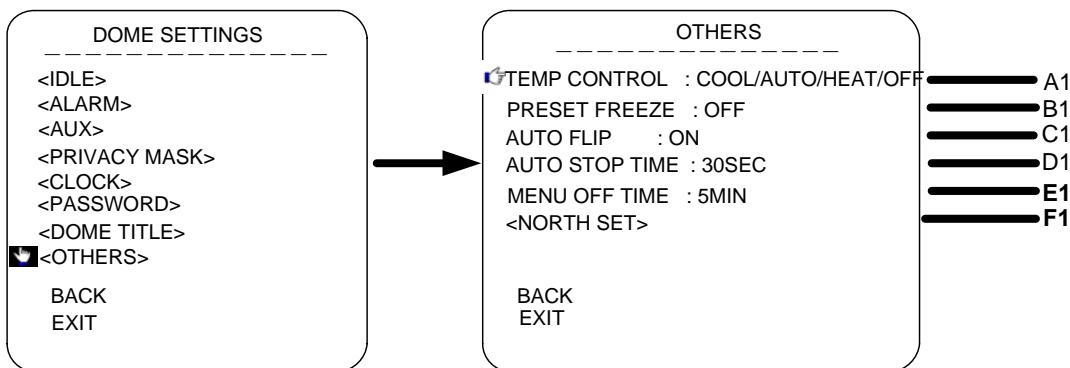
**A1：TEMP CONTROL**

**Move the cursor to TEMP CONTROL and press IRIS ON to select the temperature control mode**

**as: COOL/AUTO/HEAT/OFF**

**B1：PRESET FREEZE**

**Move the cursor to PRESET FREEZE and press IRIS ON to set preset freeze function. When**

**the dome is shifting from one preset to another, the image on the monitor will not change until**

**the preset calling is done.**

**C1：AUTO FLIP**

**Move the cursor to AUTO FLIP and press IRIS ON to enable or disable auto flip function.**

**D1.AUTO STOP TIME**

**The dome will stop PTZ move after a certain period when the stop code is not received by**

**dome. The period could be 5/15/30/60 seconds.**

**E1.MENU OFF TIME**

**The OSD menu will be automatically closed when there is not any operations for a certain**

**period. The period could be 1/2/5/10 minutes.**

**F1. <NORTH SET>**
**Move to cursor to NOTTH SET and press IRIS ON to set the direction null point.**

# CAMERA

```
        MAIN MENU                          ___ CAMERA SETTING ___
 _ _ _ _ _ _ _ _ _ _ _ _ _

 LANGUAGE:  ENGLISH           AUTO FOCUS  : OFF ━━━━━━━━  A
<SYSTEM INFORMATION>           DIGITAL  ZOOM : OFF ━━━━━━  B
<DISPLAY SETUP>                BACKLIGHT  : OFF ━━━━━━━━  C
<DOME SETTINGS>               IMAGE FREEZE : OFF ━━━━━━  D
 CAMERA>                      ZOOM SPEED  : LOW/ NORMAL/HIGH ━ E
<MOTION>                      DAY NIGHT   : AUTO/BW/COLOR ━━ F
 RESTART                      <ADVANCED> ━━━━━━━━━━━━  G
 FACTORY  DEFAULTS

 HELP                             BACK
 EXIT                             EXIT
```
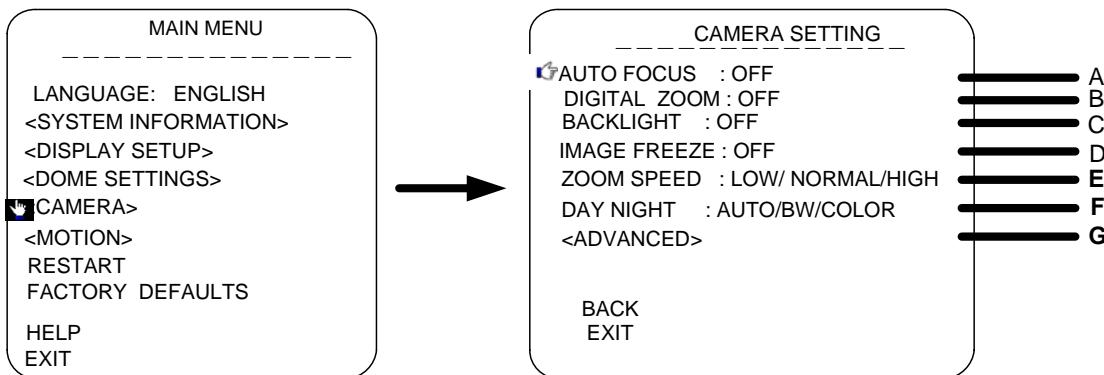
## A.AUTO FOCUS

## B.DIGITAL ZOOM

## C.BACKLIGHT

**When the light is dim, please open the backlight compensation to make the image bright**

## D.IMAGE FREEZE

## E.ZOOM SPEED: LOW/NORMAL/HIGH

## F.DAY NIGHT:AUTO/BW/COLOR

## G. <ADVANCED>

```
      CAMERA SETTING                         ADVANCED
 _ _ _ _ _ _ _ _ _ _ _ _                _ _ _ _ _ _ _ _ _ _ _ _

 AUTO FOCUS  : OFF             WHITE BALANCE: AUTO ━━━━  A1
  DIGITAL  ZOOM : OFF          RED  GAIN   : 064 ━━━━━  B1
  BACKLIGHT  : OFF             BLUE GAIN   : 212 ━━━━━  C1
 IMAGE FREEZE : OFF            BRIGHT     : 06 ━━━━━━━  D1
 ZOOM SPEED  : LOW/ NORMAL/HIGH  EXPOSURE : AUTO ━━━━━  E1
 DAY NIGHT   : AUTO/BW/COLOR   WIDE DYNAMIC  : OFF ━━━  F1
 <ADVANCED>

   BACK                            BACK
   EXIT                            EXIT
```
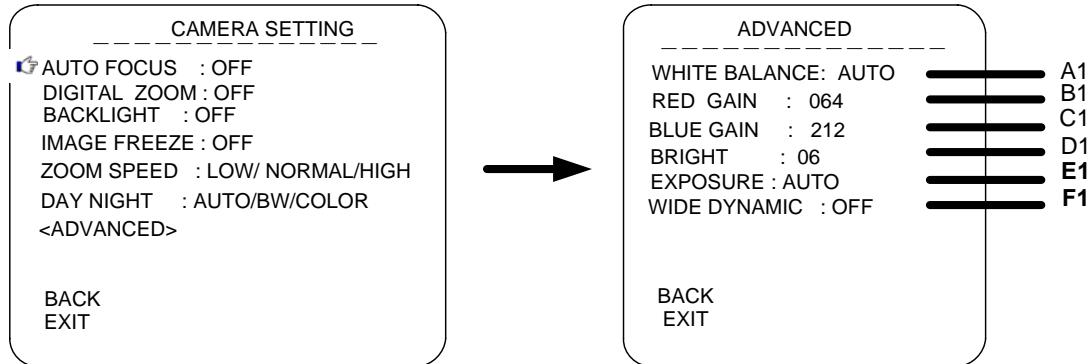
## A1. WHITE BALANCE:AUTO/MANUAL/INDOOR/OUTDOOR

## B1. RED GAIN

## C1. BLUE GAIN

## D1.BRIGHT

## E1.EXPOSURE

## F1.WIDE DYNAMIC

**\*NOTICE: This item is only for the camera module with WDR function.**

# 8 Trouble Shooting

| Problems | Possible Reason | Solution |
|---|---|---|
| Power on, no movement, no image, indicator light does not light | Power line connected wrong | Correct it |
| | Power damaged | Replace |
| | Blowout | Replace |
| | Power line be connected bad | Check it |
| Power on, self check, has image, can't control, indicator light does not flicker | The machine's address code or baud rate is wrong | Reset |
| | Protocol wrong | Correct it |
| | RS485 bus be connected wrong | Check it |
| Image is dim | Focus in manual state | Clean it |
| | Dome is dirty | Change a certified power supply |
| Fan does not rotate | Fan is connected wrong | Check it |